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Document Number 1

DERWENT-ACC-NO: 1996-455338

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Title Compsns. useful for removing water from a solid surface - contg.
3-10C fluorocarbon, a co-solvent and an imidazoline surfactant

Inventor Name BARTHELMEY, P

PRIORITY-DATA: 1995FR-0003931 (March 31, 1995)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
WO 9630487 A1	October 3, 1996	F	015	C11D 003/43
EP 817830 A1	January 14, 1998	F	000	C11D 003/43
FR 2732356 A1	October 4, 1996	N/A	010	C11D 007/30
AU 9652728 A	October 16, 1996	N/A	000	C11D 003/43

INT-CL: B01D012/00 C11D003/43 C11D007/30 C11D007/50 C23G005/028
F26B005/00

ABSTRACTED-PUB-NO: WO 9630487A

BASIC-ABSTRACT: Compsns. comprise a 3-10C fluorohydrocarbon (I), a co-solvent (II) and a surfactant comprising at least one imidazoline (III). (I) is pref. a hydrofluoroalkane of formula CaHbFc (Ib) in which a is a whole no. 3-8, b is a whole no. of from 1 to (a+2) and c is a whole no. of up to (2a+1). Pref. (Ib) has 4-6C, partic. where (I) is 1,1,1,3,3-pentafluorobutane (Ic). Co-solvent (II) is pref. chosen from 5-10C (cyclo)alkanes, 1-10C alcohols, 3-8C ketones, 2-8C esters, 2-8C ethers, 1-3C chlorinated hydrocarbons and 2-4C chlorofluorohydrocarbons. USE - The compsns. are esp. useful for eliminating water from solid surfaces, esp. in the prodn. of high precision parts in the electrical, electronic, optical and mechanical industries where the adherent film of moisture on the surface of the articles has a deleterious effect on the mfg. process or the prod. ADVANTAGE - The compsns. give excellent removal of water from solid surfaces can be re-used for long periods without losing their water removal efficiency, exhibit good solubilisation of the imidazoline component and do not contribute to destruction of the ozone layer.

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no fluorinated alcohol

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Document Number 1

DERWENT-ACC-NO: 1993-370620

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Title Solid surface de-wetting or degreasing compsn. - comprises soln. of mono- or di-alkyl:phosphate of fluorinated amine, quat. ammonium mono- or di-alkyl:phosphate and opt. quat. ammonium chloride, in halogenated aliphatic solvent

Inventor Name BIL, M

PRIORITY-DATA: 1992FR-0006201 (May 21, 1992)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
KR 9601016 B1	January 17, 1996	N/A	000	C11D 007/52
EP 571245 A1	November 24, 1993	F	010	C11D 007/52
FR 2691473 A1	November 26, 1993	N/A	017	C11D 007/52
CA 2096713 A	November 22, 1993	F	000	C11D 007/50
JP 06071104 A	March 15, 1994	N/A	007	B01D 012/00
CN 1082103 A	February 16, 1994	N/A	000	C11D 007/52
US 5514301 A	May 7, 1996	N/A	005	C11D 001/00
JP 2542329 B2	October 9, 1996	N/A	007	B01D 012/00
EP 571245 B1	July 15, 1998	F	000	C11D 007/52
DE 69319661 E	August 20, 1998	N/A	000	C11D 007/52
ES 2118201 T3	September 16, 1998	N/A	000	C11D 007/52

INT-CL: B01D012/00 B01F017/18 C03C023/00 C09K003/18 C11D001/00
 C11D001/40 C11D001/62 C11D007/30 C11D007/50 C11D007/52 C23G005/02
 C23G005/028 C11D001:62 C11D007/52 C11D001:62 C11D007/52 C11D001:62
 C11D007/52 C11D001:62 C11D007/52

ABSTRACTED-PUB-NO: EP 571245A

BASIC-ABSTRACT: A dewetting or degreasing compsn. comprises a soln. of surfactant in a halogenated aliphatic solvent which is normally liq. and has a b.pt. not exceeding 87 deg.C. The surfactant comprises: (a) a cpd. of formula (RO)p(HO)2-pPO2(-)(R2) (R1)N(+)(H-X-RF (IV)); (b) a cpd. of formula (RO)p(HO)2-pPO2(-)R'2NR(+)(R')2 (V); and opt. (c) a cpd. of formula R'2N(+)(R')2Cl(-) (III). In formulae, p = 1-2; R = 1-18C opt. branched alkyl; R1 and R2 = H or 1-4C (hydroxy)alkyl; RF = 2-20C opt. branched perfluoroalkyl; X = opt. partly halogenated divalent bond; R' = 6-18C opt. branched alkyl; and R' = Me or Et. The amts. are 0.5-0.7 mols. (IV), 0.5-0.3 mols. (V) and 0-0.5 mols. (III) per mol. (IV) and (V). (IV) and (V) are pref. in equimolecular amts. and (III) is 0.1-0.5 mols, pref. 0.2 mols, per mol. (IV) and (V). The solvent is a chlorofluorocarbon, a hydrochlorofluorocarbon, a chlorinated solvent, a fluorinated ether or a mixt. of these or with an (un)satd. hydrofluorocarbon. Pref. solvents are 1,1,2-trichloro-1,2,2, -trifluoroethane; 1,1-dichloro-1-fluoroethane; 1,1-dichloro-2,2,2-trifluoroethane or 1,1-dichloro-2,2,3,3,3-penta-fluoropropane. Amt. of surfactant is 0.01-30 wt.%.
 USE/ADVANTAGE - Used for dewetting or degreasing solid surfaces (e.g.

metals, glass and plastics). Deemulsification is accelerated as well as sepn. of the aq. and organic phases.

ABSTRACTED-PUB-NO: EP 571245B

EQUIVALENT-ABSTRACT: A dewetting or degreasing compsn. comprises a soln. of surfactant in a halogenated aliphatic solvent which is normally liq. and has a b.pt. not exceeding 87 deg.C. The surfactant comprises: (a) a cpd. of formula $(RO)_p(HO)_2-pPO_2(-)(R_2)(R_1)N(+)H-X-RF$ (IV); (b) a cpd. of formula $(RO)_p(HO)_2-pPO_2(-)R'2NR(+)R''2$ (V); and opt. (c) a cpd. of formula $R'2N(+)R''2Cl(-)$ (III). In formulae, $p = 1-2$; $R = 1-18C$ opt. branched alkyl; R_1 and $R_2 = H$ or $1-4C$ (hydroxy)alkyl; $RF = 2-20C$ opt. branched perfluoroalkyl; $X =$ opt. partly halogenated divalent bond; $R' = 6-18C$ opt. branched alkyl; and $R'' = Me$ or Et . The amts. are $0.5-0.7$ mols. (IV), $0.5-0.3$ mols. (V) and $0-0.5$ mols. (III) per mol. (IV) and (V). (IV) and (V) are pref. in equimolecular amts. and (III) is $0.1-0.5$ mols, pref. 0.2 mols, per moli (IV) and (V). The solvent is a chlorofluorocarbon, a hydrochlorofluorocarbon, a chlorinated solvent, a fluorinated ether or a mixt. of these or with an (un)satd. hydrofluorocarbon. Pref. solvents are 1,1,2-trichloro-1,2,2, -trifluoroethane; 1,1-dichloro-1- fluoroethane; 1,1-dichloro-2,2,2- trifluoroethane or 1,1-dichloro-2,2,3,3,3-penta-fluoropropane. Amt. of surfactant is $0.01-30$ wt.%.

USE/ADVANTAGE - Used for dewetting or degreasing solid surfaces (e.g. metals, glass and plastics). Deemulsification is accelerated as well as sepn. of the aq. and organic phases. Dewetting or degreasing composition consisting essentially of a solution of surface-active material in at least one halogenated aliphatic solvent which is liq. at room temp. and which has a boiling point not exceeding 87 deg.C., characterized in that surface-active material comprises: a) at least one compound of formula (I), in which p is a number ranging from 1 to 2, R denotes an opt. branched 1-18C alkyl radical, R_1 and R_2 , which are identical or different, each represent a hydrogen atom or an alkyl or hydroxyalkyl radical contg. 1 to 4 carbon atoms, RF represents a opt. branched 2-20C perfluoroalkyl radical and X denotes an opt. partially halogenated, divalently-bonded group, b) at least one compound of formula (II), in which p and R have the same meaning as above, R' denotes an opt. branched 6-18C alkyl radical and R'' is a methyl or ethyl radical, and opt. c) a compound of formula (III), in which R' and R'' have the same meanings as previously, in a proportion of 0.5 to 0.7 mol of compound(s) of formula (IV), 0.5 to 0.3 mol of compound(s) of formula (V) and 0 to 0.5 mol of compound of formula (III) per mol of compounds (I) and (II).

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DERWENT-ACC-NO: 1993-391817
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Title Moisture-stripping agent - comprises fully fluorinated cpd. e.g.
per:fluoro:hexane, fluoro:surfactant and ethyl ether, isopropyl ether and/or
penta:fluoro-propanol

Inventor Name

PRIORITY-DATA: 1992JP-0103417 (April 23, 1992)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
JP 05293303 A	November 9, 1993	N/A	004	B01D 012/00

INT-CL: B01D012/00 C11D007/50

ABSTRACTED-PUB-NO: JP05293303A

BASIC-ABSTRACT: The moisture-stripping agent comprises a) a fully fluorinated cpd. having a boiling pt. of 30-50 deg. C., b) a fluorine type surfactant, and c) at least one cpd. selected from ethyl, ether, isopropyl ether and 2,2,3,3,3-pentafluoropropanol. The fully fluorinated cpd. is at least one cpd. selected from the group consisting of perfluoropentane, perfluorohexane, perfluoroheptane, fluorooctane, perfluorodimethylcyclobutane, perfluoromethylcyclopentane, perfluoromethylcyclohexane, perfluorodimethylcyclohexane, perfluoro-2-butyltetrahydrofuran, perfluoro-2-propyltetrahydrofuran, perfluorodibutyl ether, and perfluorotri-propylamine. USE/ADVANTAGE - used for stripping moisture adhering to articles after water washing, such as precision, optical and electronic instruments and parts, etc. It suppresses or prevents precipitation of surfactant when used at low temp.

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